



1/19

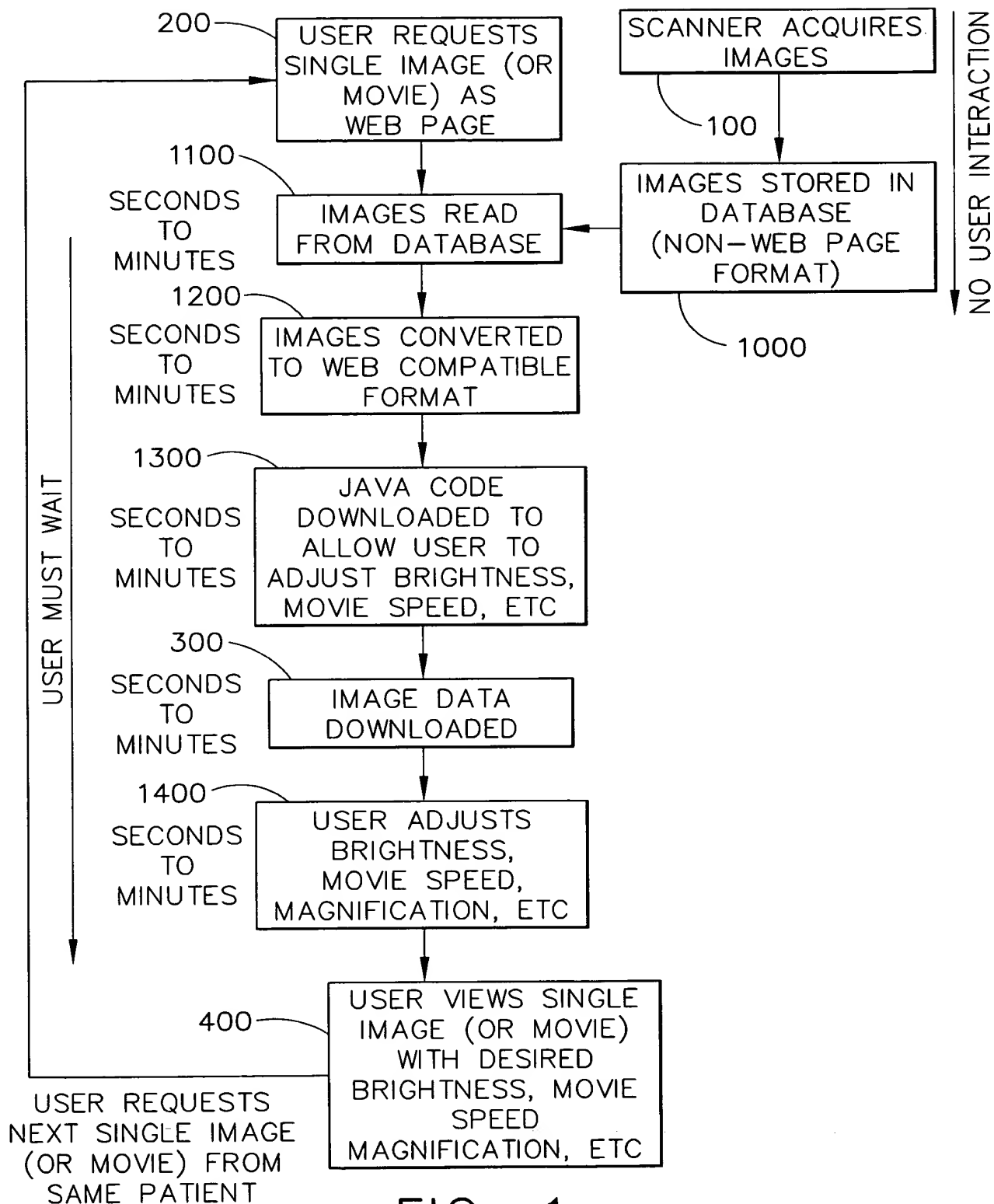


FIG. 1 (PRIOR ART)

2/19

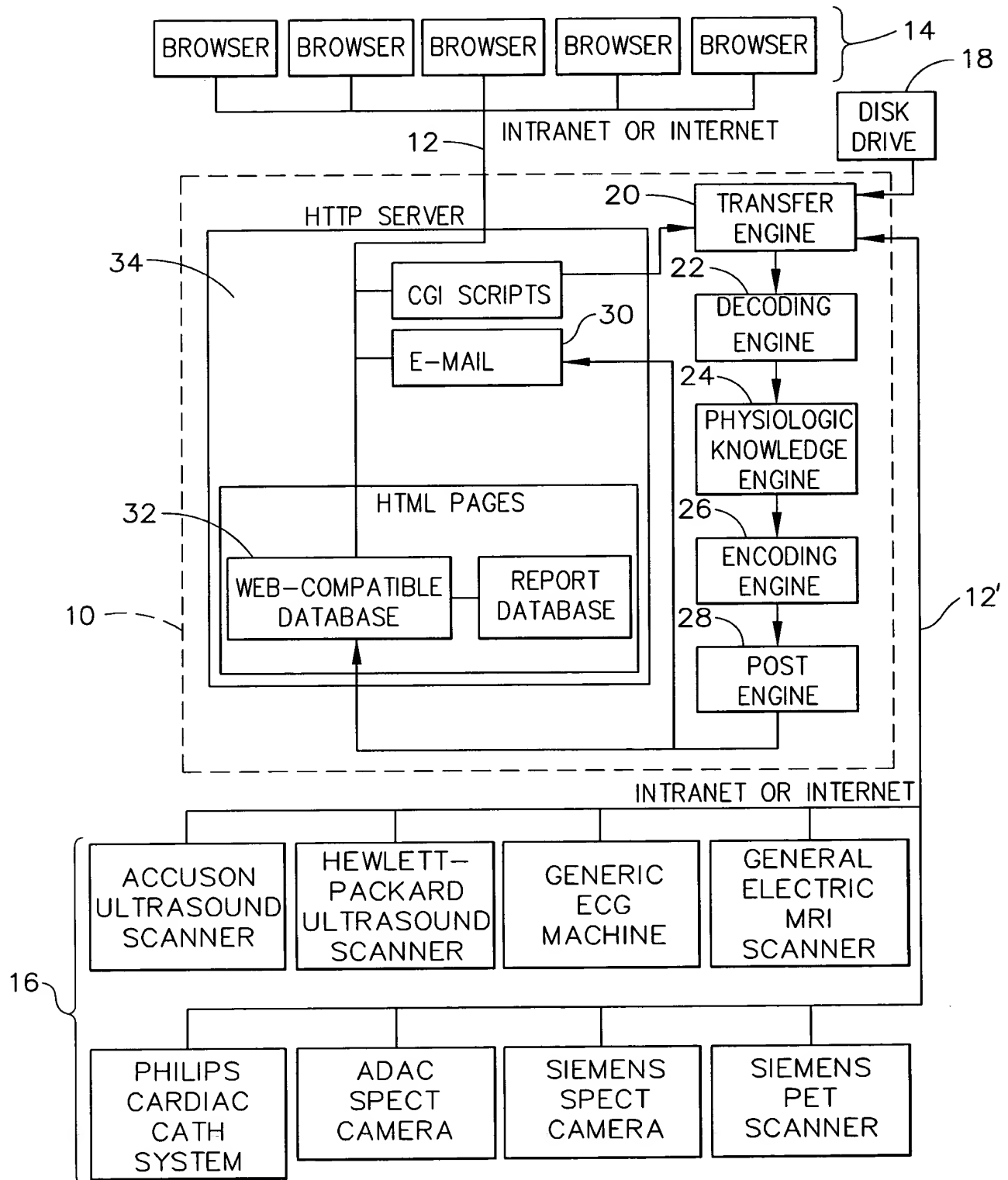


FIG. 2

3/19

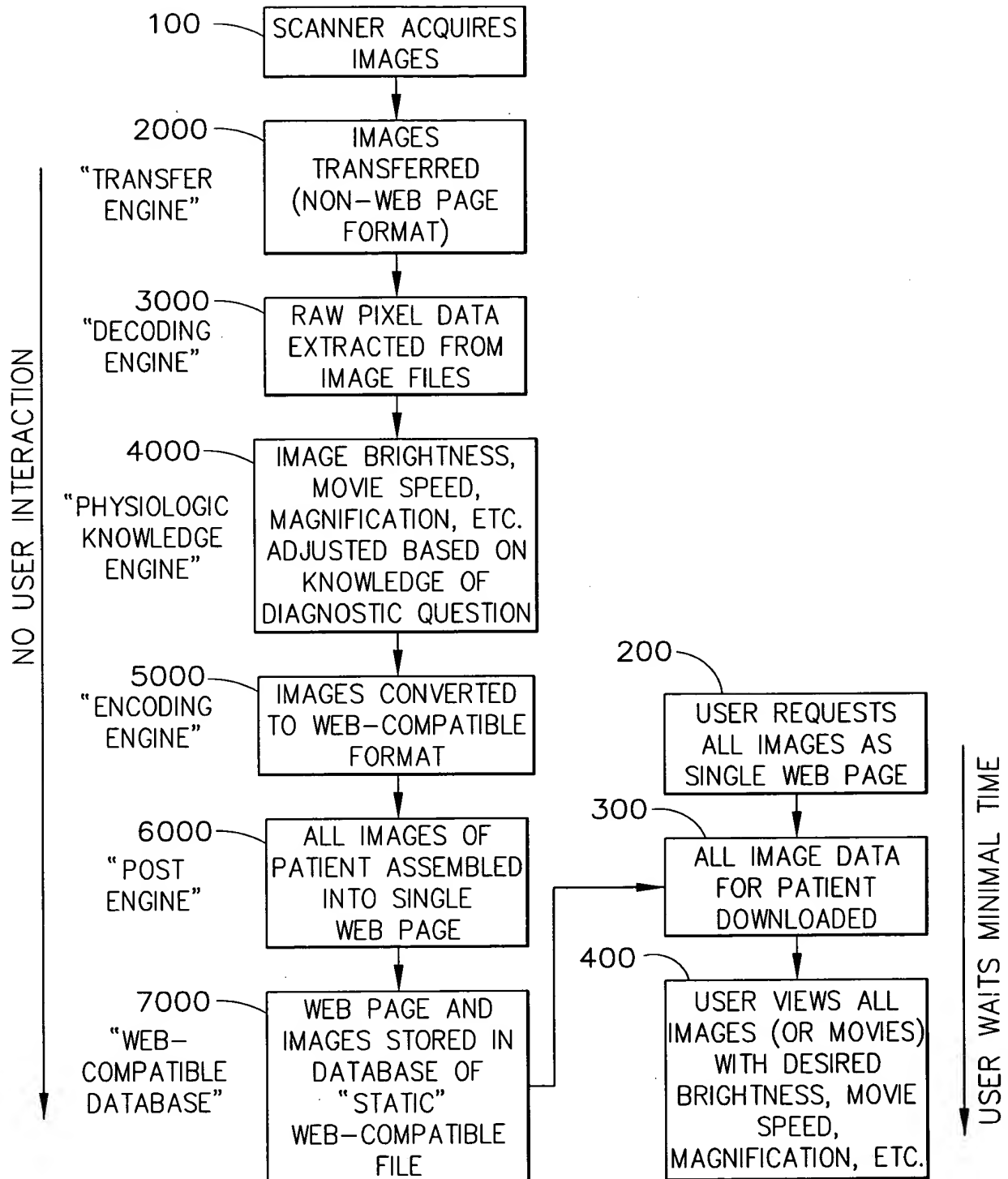
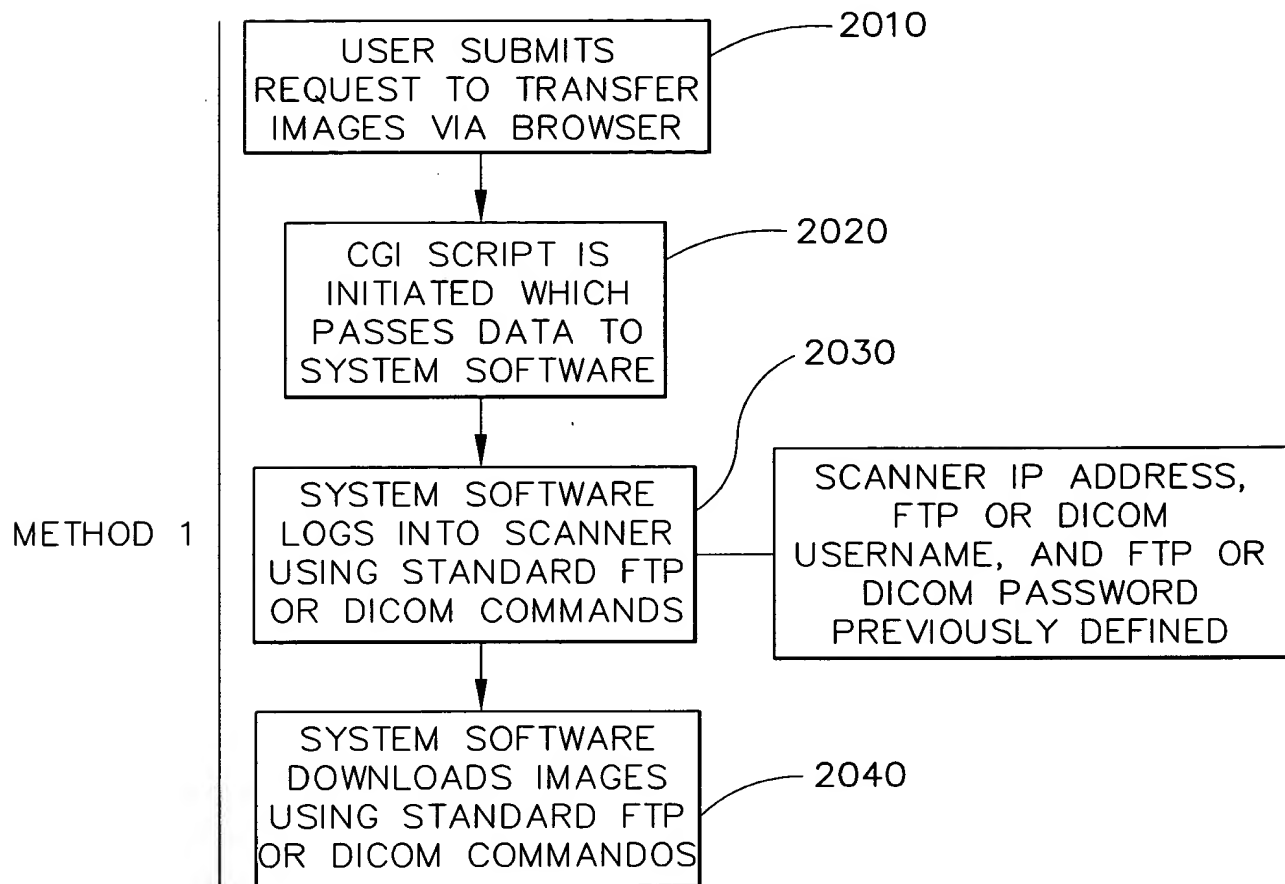


FIG. 3

4/19



—OR—

FIG. 4A

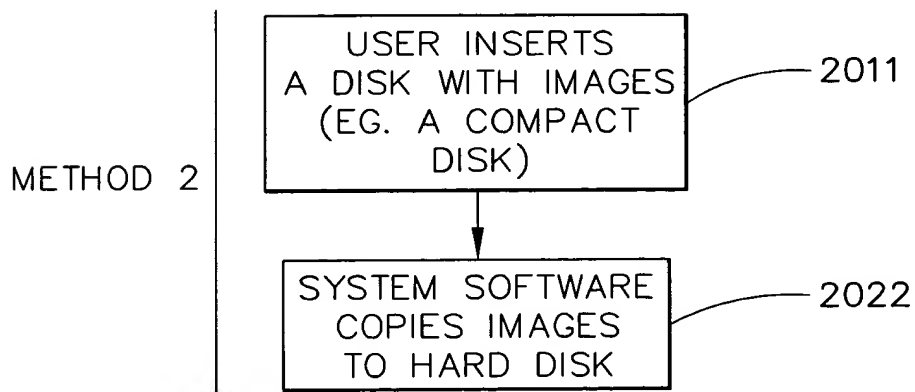


FIG. 4B

5/19

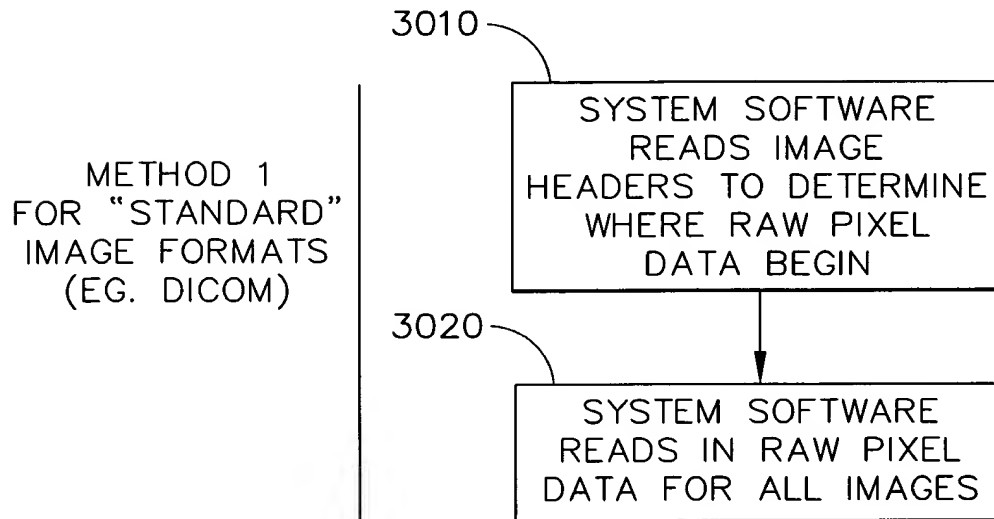


FIG. 5A

—OR—

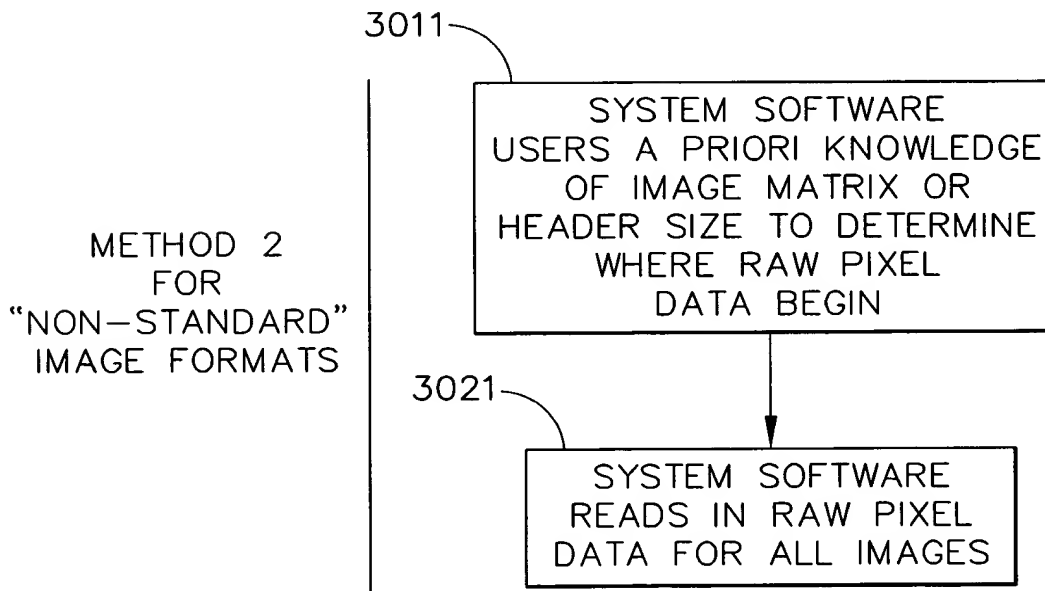


FIG. 5B

6/19

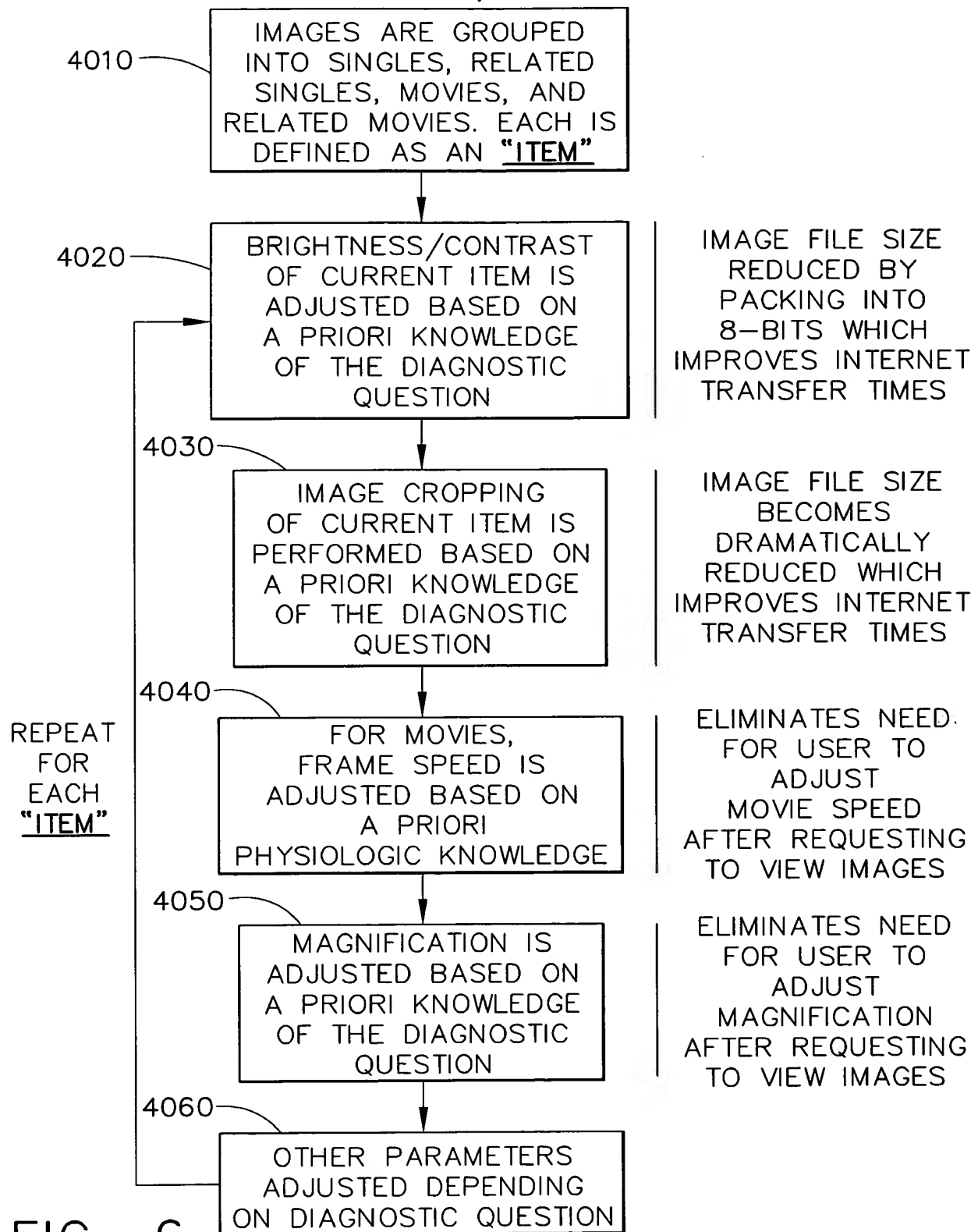


FIG. 6

7/19

**STEP 4020** - DEFINE SEARCH REGION AS SUBREGION WITHIN IMAGE WHICH CONTAINS THE ORGAN OF INTEREST (EG. HEART) AND SEARCH ALL MOVIE FRAMES FOR THE SINGLE BRIGHTEST PIXEL. SCALE ALL MOVIE FRAMES BY SAME AMOUNT TO MAKE SINGLE BRIGHTEST PIXEL EQUAL TO 2 TO THE 8TH POWER MINUS 1, EG. 255 (1 BYTE/PIXEL, 8-BIT IMAGE).

**STEP 4030** - CREATE THUMBNAIL MOVIES BY CROPPING IMAGES SUCH THAT ONLY THE ORGAN OF INTEREST IS SHOWN (EG. HEART).

**STEP 4040** - CONVERT ALL MOVIE FRAMES INTO A SINGLE MOVIE WITH FRAME RATE CHOSEN TO SIMULATE REAL TIME MOTION (EG. BEATING HEART)

**STEP 4050** - CREATE A FULL-FIELD-OF-VIEW VERSION OF EACH THUMBNAIL SO THAT USER CAN DOUBLE-CLICK TO VIEW ADDITIONAL DETAILS.

FIG. 7A

8/19

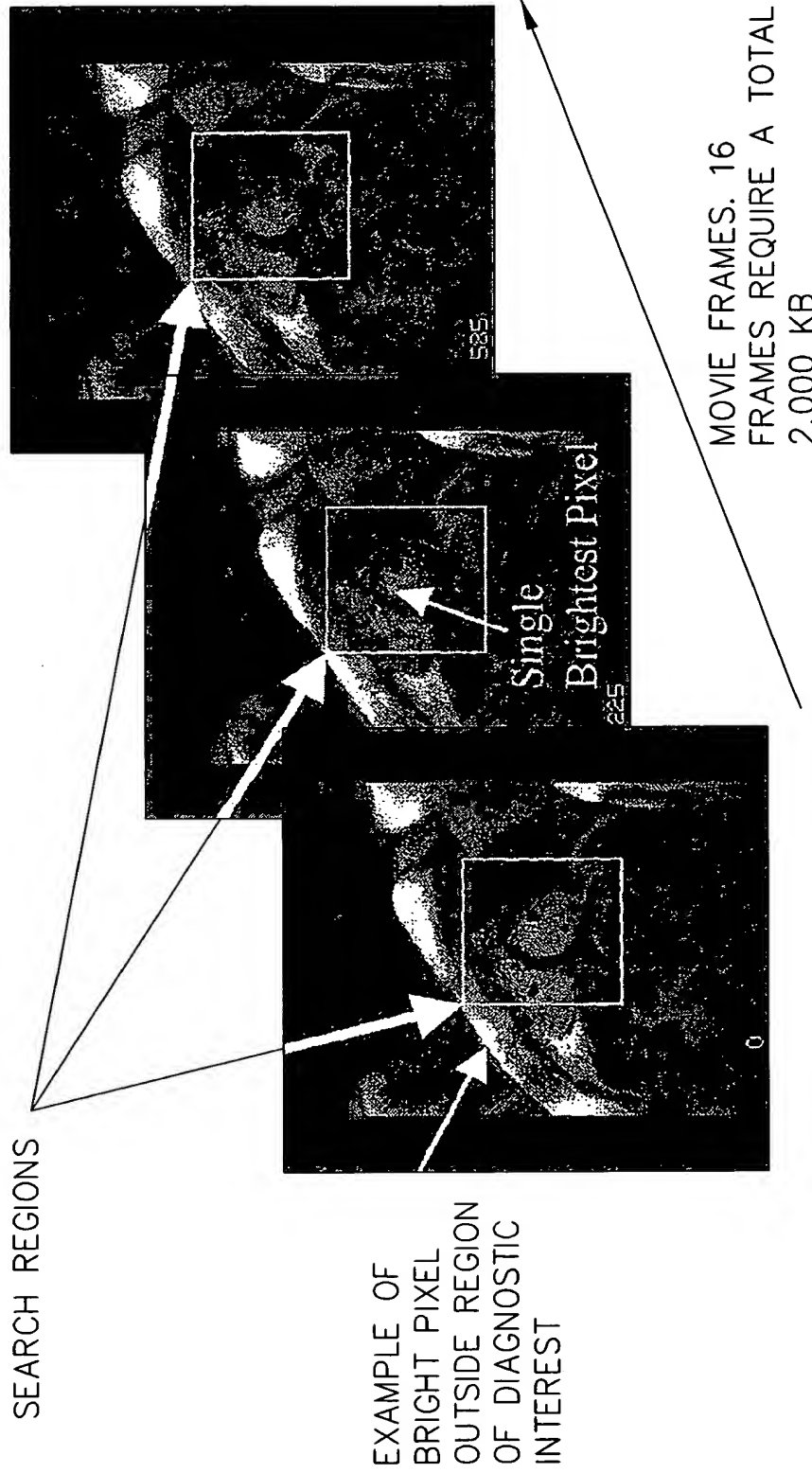


FIG. 7B



9/19



EG. STEP 4050  
FULL FIELD-OF-  
VIEW MOVIE  
DISPLAYED FULL  
SCREEN WHEN  
THUMBNAIL  
CLICKED (16  
FRAMES=400KB)



EG. STEP 4040  
THUMBNAIL MOVIE OF  
BEATING HEART  
(16 FRAMES=100KB)

FIG. 7C

10/19

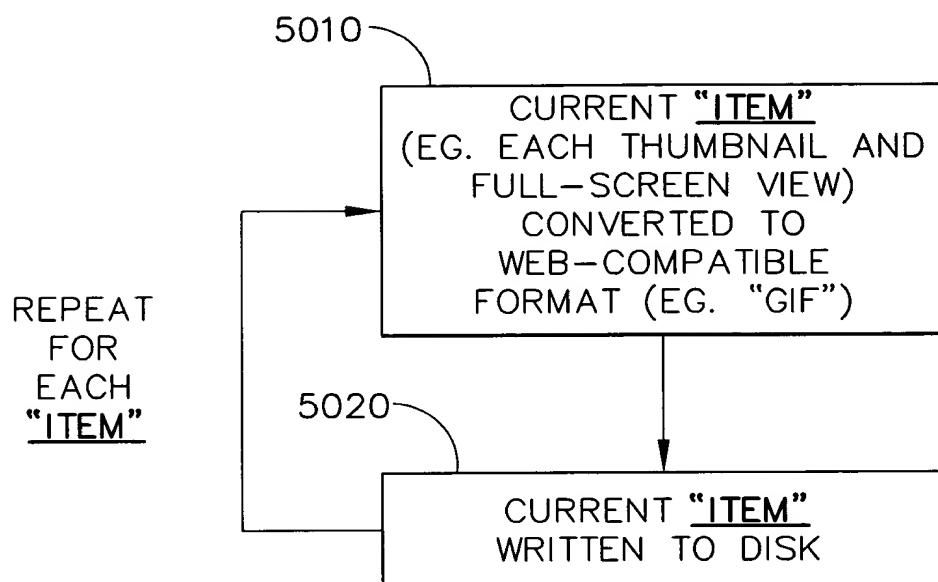


FIG. 8

11/19

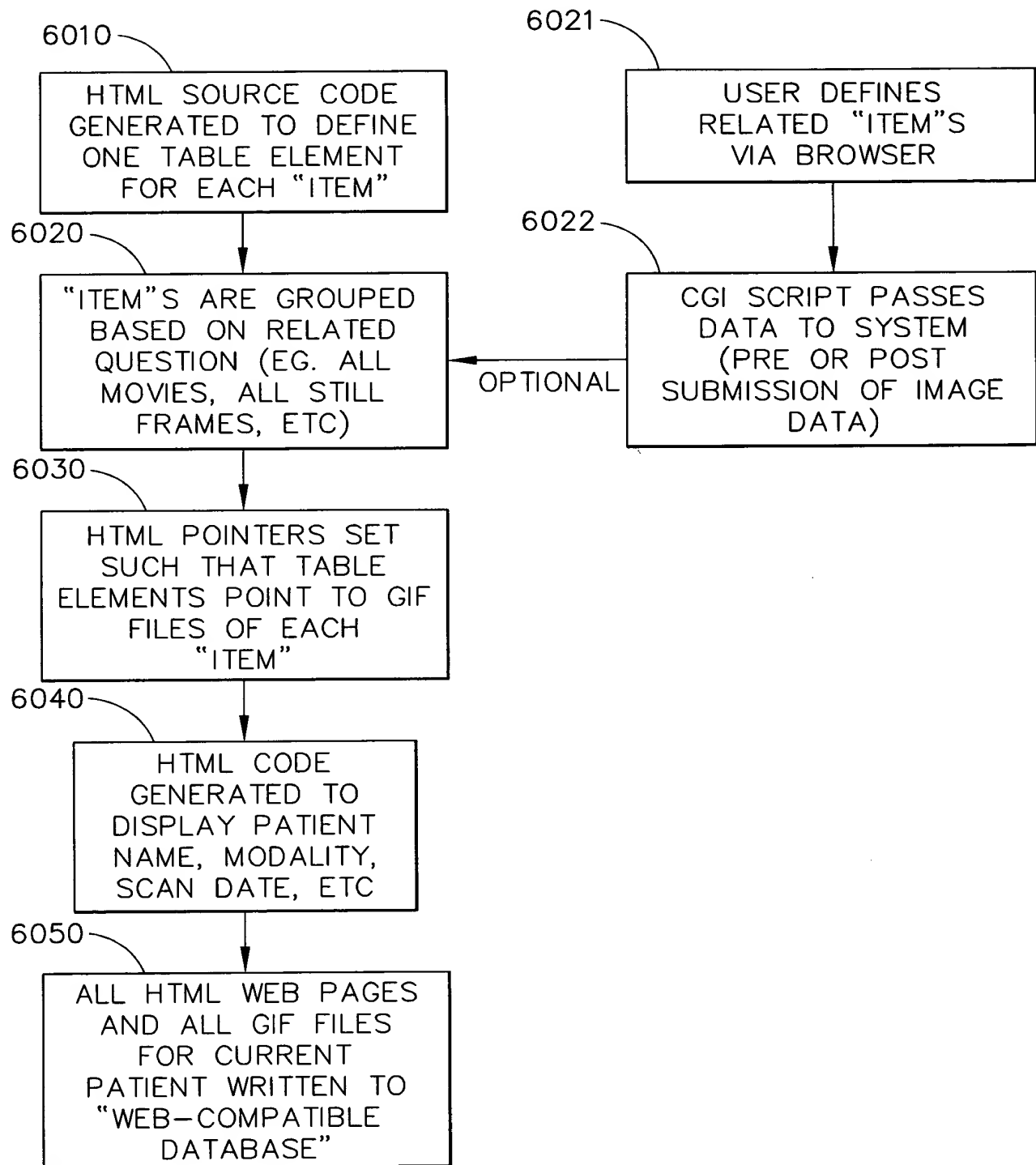


FIG. 9

12/19

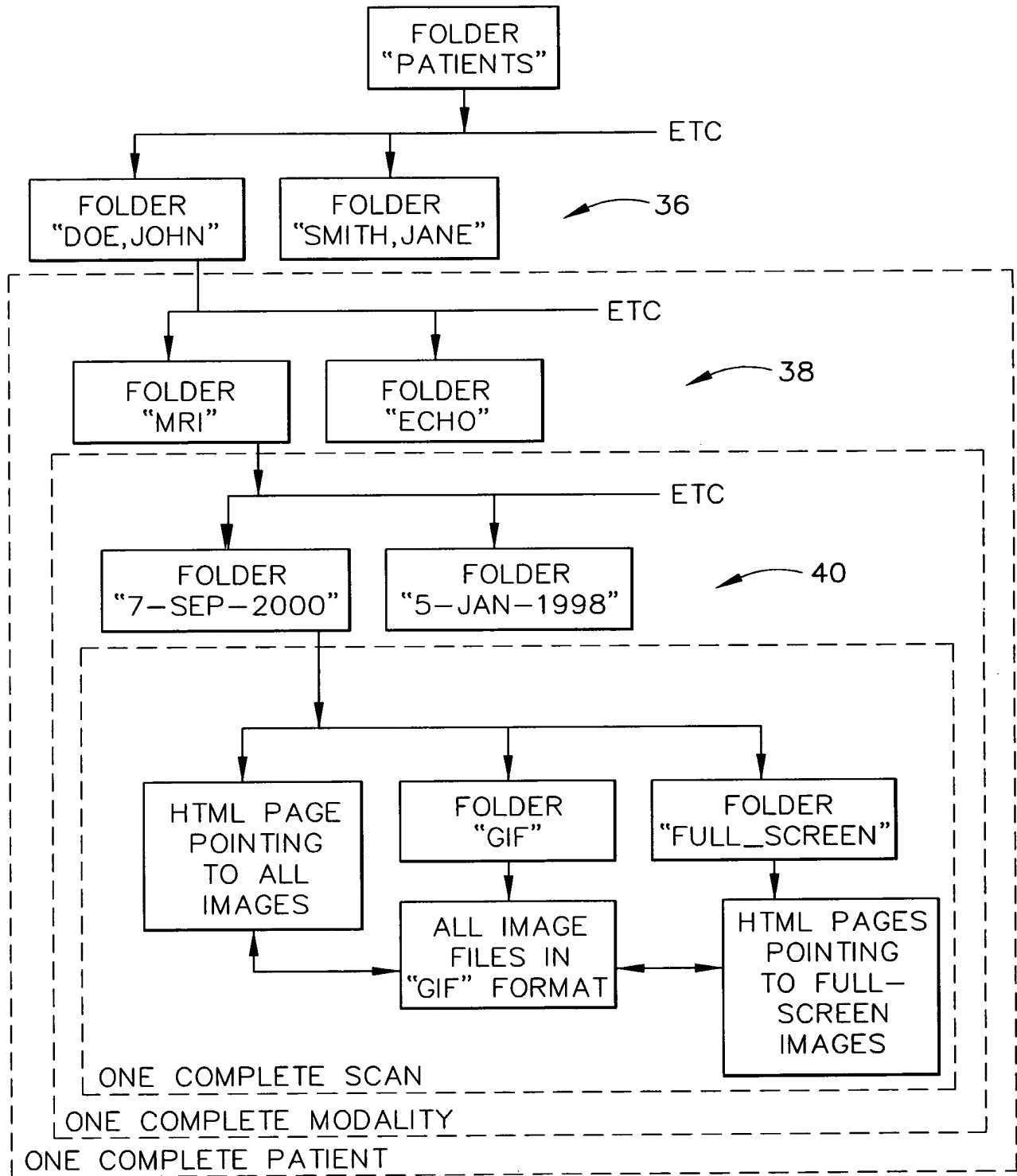


FIG. 10

32

13/19

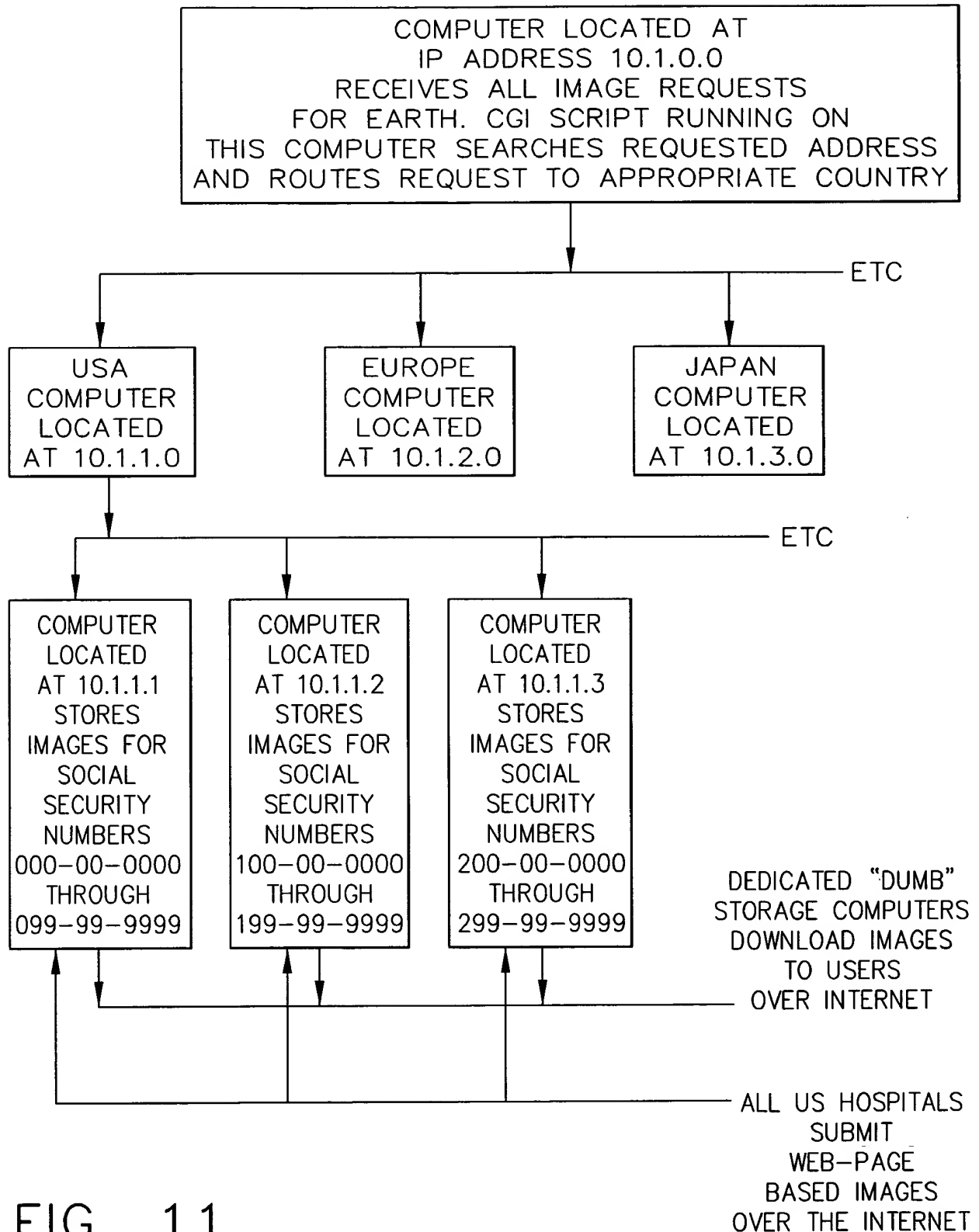


FIG. 11

14/19

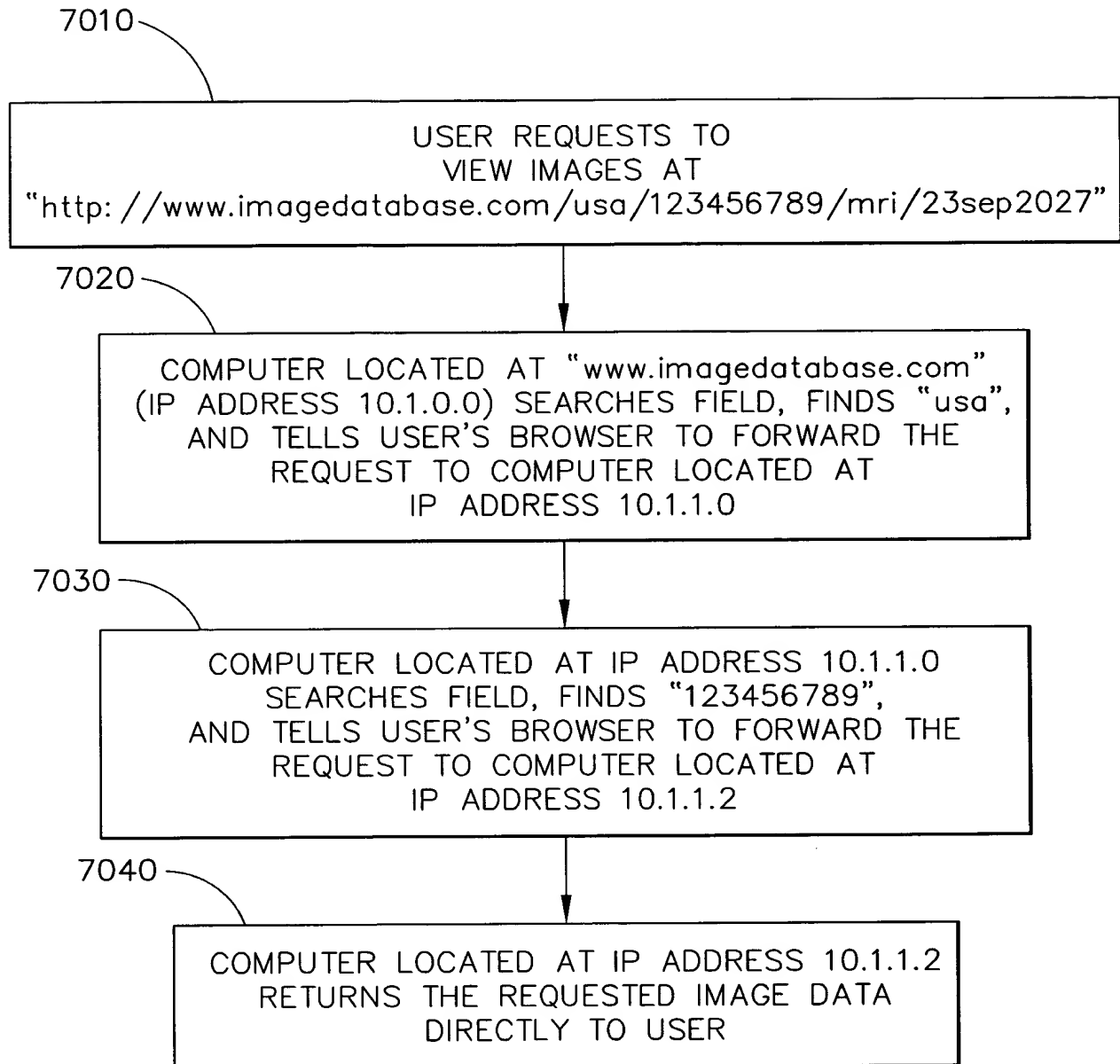


FIG. 12

15/19

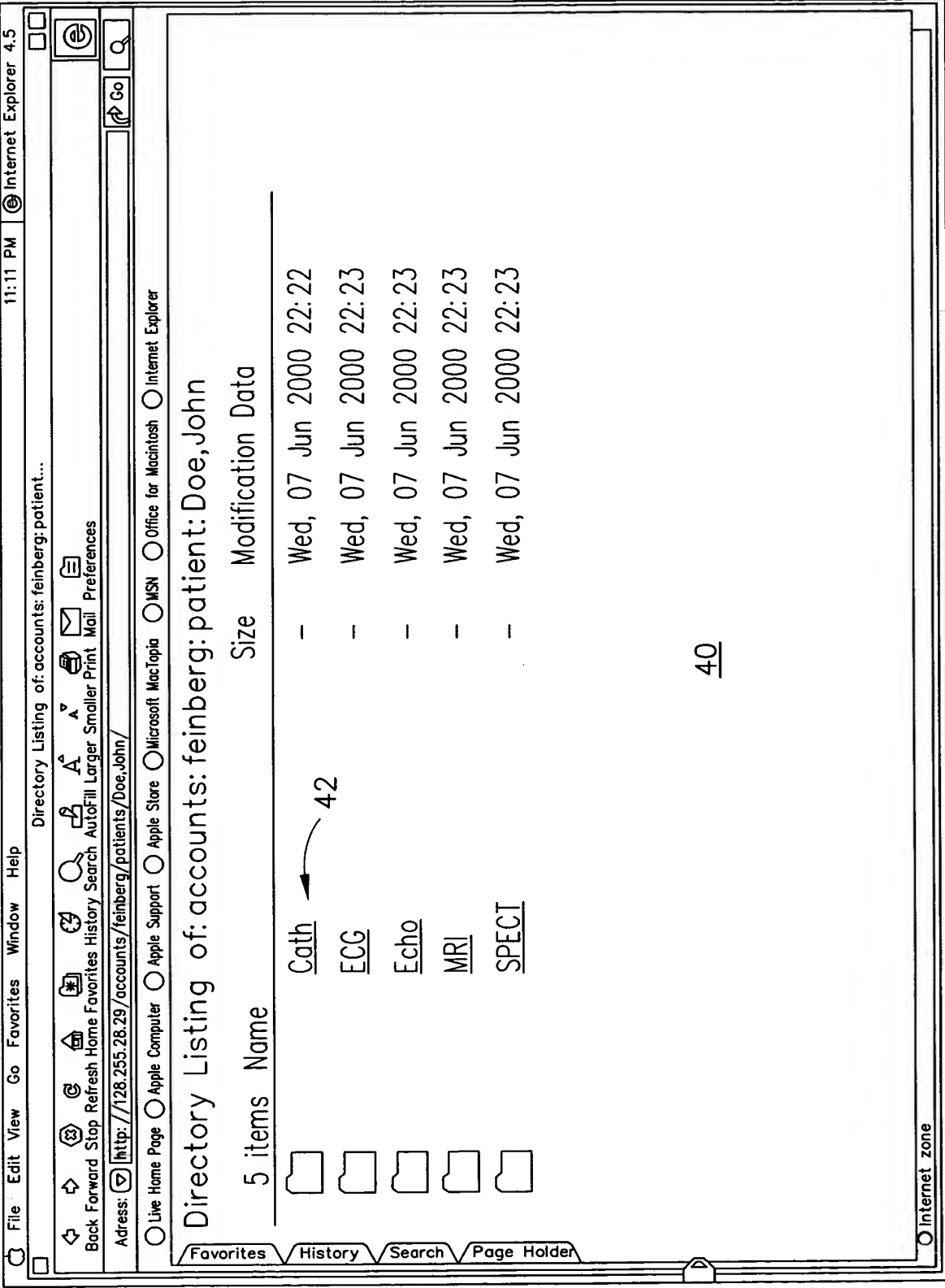


FIG. 13

16/19

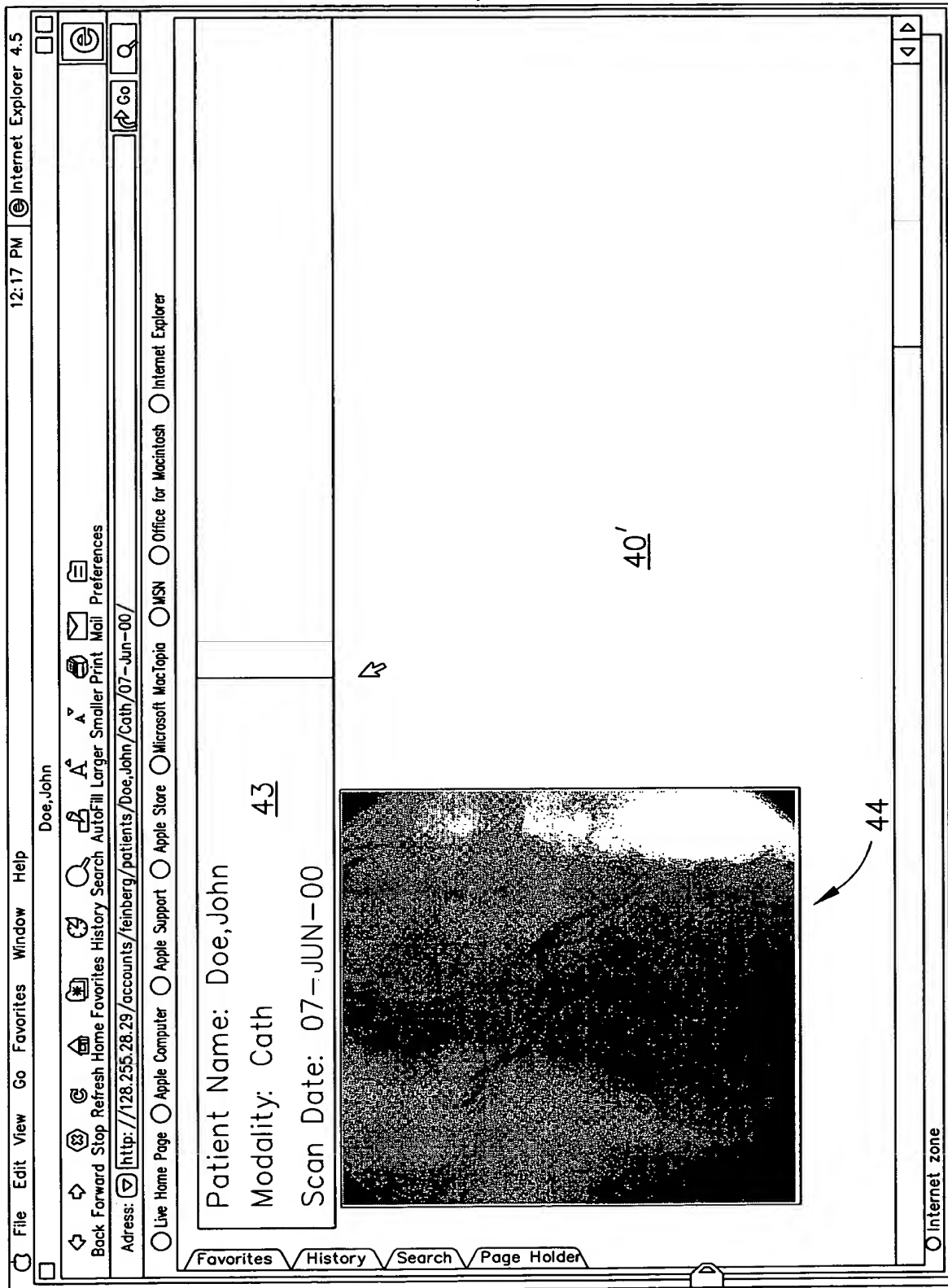


FIG. 14



17/19

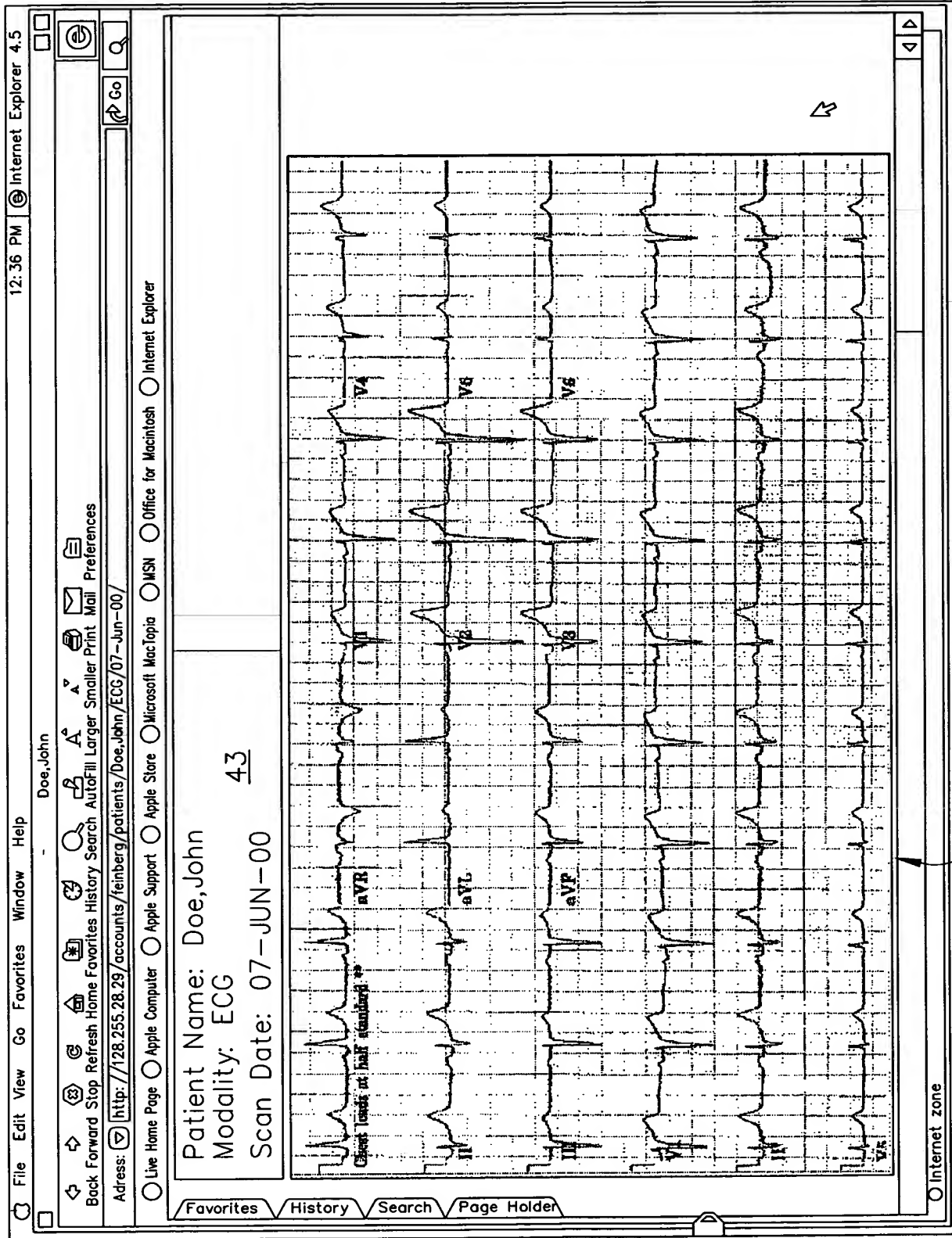


FIG. 15

44

18/19

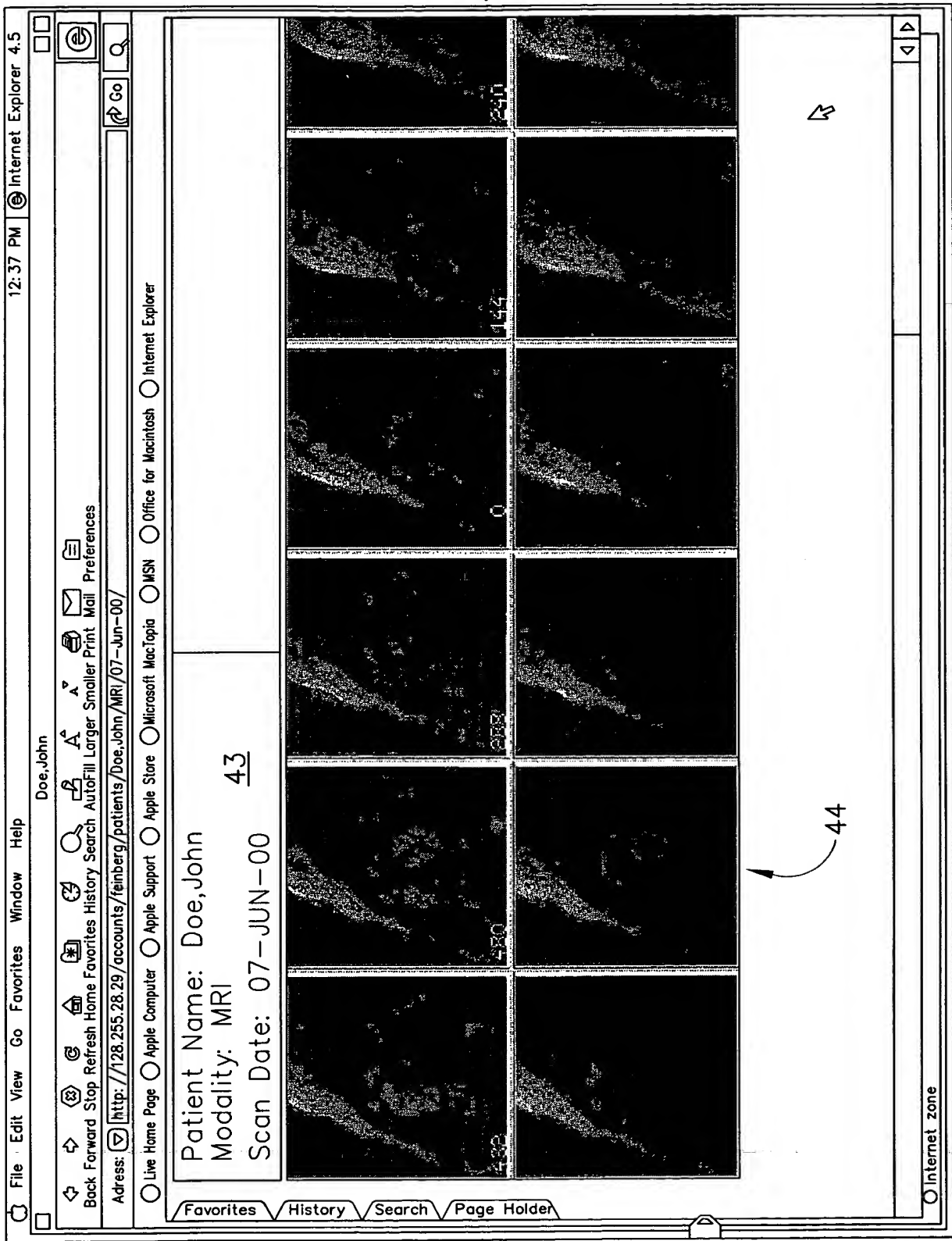


FIG. 16

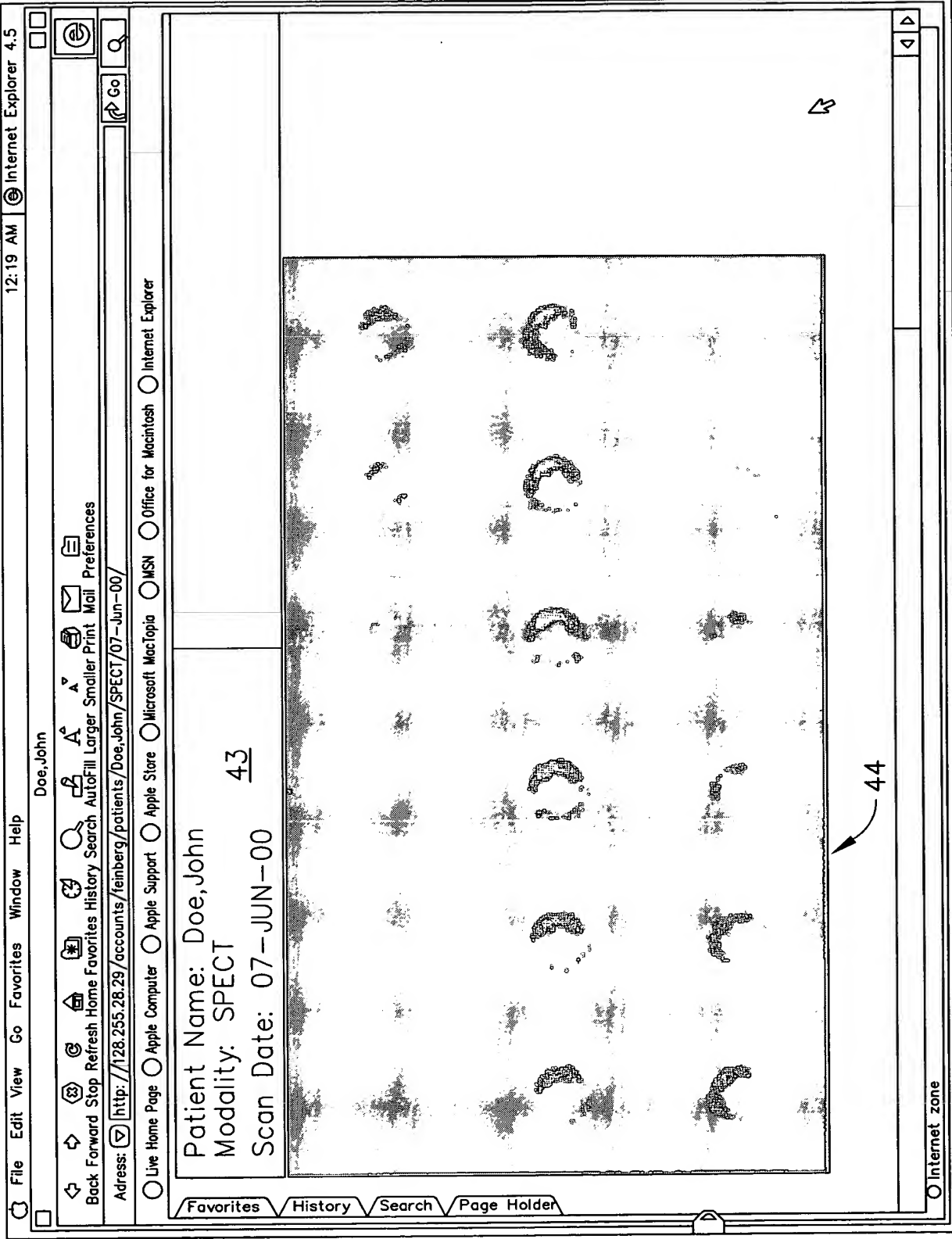


FIG. 17